

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P886477

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMB-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDMB-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 449.5 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

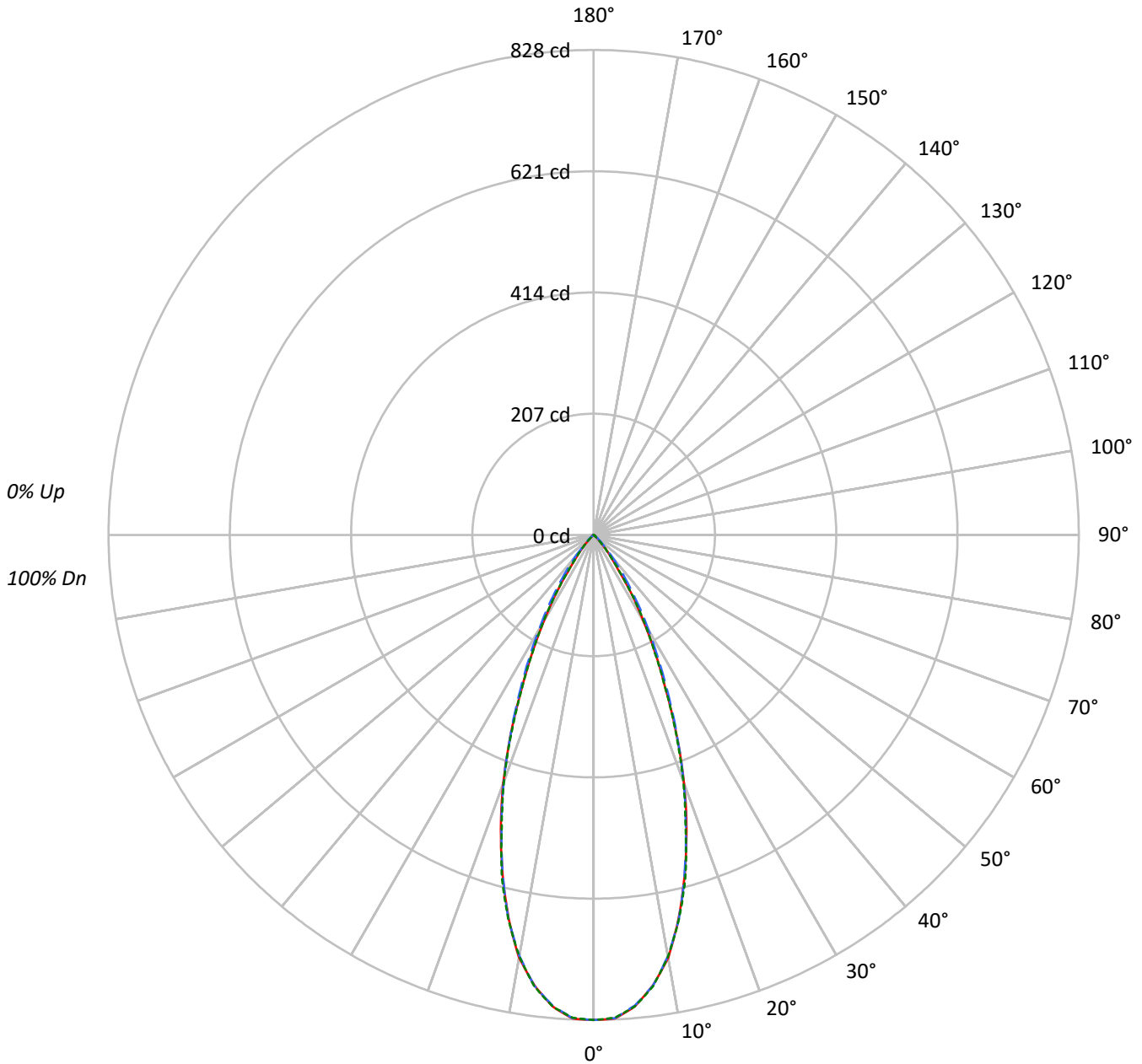
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95						95													
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90						90													
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85						85													
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80						80													
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76						76													
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72						72													
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68						68													
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65						65													
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62						62													
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59						59													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	80232	80232	80232
5°	78584	78428	78584
10°	72105	71800	71879
15°	60236	60166	60707
20°	46515	46361	46124
25°	31105	32185	31030
30°	18961	20862	19307
35°	8976	12086	9248
40°	4211	6260	4009
45°	1274	2548	1274
50°	347	934	347
55°	135	135	135
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2548 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	16.6
10°-20°	165.1	36.7
20°-30°	136.7	30.4
30°-40°	59.6	13.3
40°-50°	12.5	2.8
50°-60°	1.0	0.2
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	376.5	83.8
0°-40°	436.0	97.0
0°-60°	449.5	100.0
0°-90°	449.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	808	809	806	807	808	75
15°	601	599	600	603	605	165
25°	291	299	301	295	290	135
35°	76	90	102	89	78	53
45°	9	14	19	14	9	10
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.2	828.2	828.2	828.2	828.2
2.5°	826.6	825.9	825.9	825.9	825.1
5°	808.1	808.8	806.5	807.3	808.1
7.5°	775.6	775.6	776.3	777.9	777.1
10°	733.0	729.9	729.9	731.4	730.7
12.5°	670.3	671.8	671.8	674.9	672.6
15°	600.6	599.1	599.9	603.0	605.3
17.5°	527.1	526.3	523.2	524.0	521.7
20°	451.2	449.7	449.7	446.6	447.4
22.5°	370.7	373.1	371.5	372.3	367.7
25°	291.0	298.8	301.1	294.9	290.3
27.5°	226.8	230.7	239.2	233.0	224.5
30°	169.5	177.2	186.5	178.8	172.6
32.5°	123.1	133.1	141.6	134.7	123.8
35°	75.9	89.8	102.2	89.0	78.2
37.5°	49.5	57.3	72.8	56.5	49.5
40°	33.3	36.4	49.5	37.2	31.7
42.5°	20.1	23.2	29.4	24.0	19.4
45°	9.3	13.9	18.6	13.9	9.3
47.5°	3.9	6.2	12.4	5.4	3.9
50°	2.3	3.1	6.2	3.1	2.3
52.5°	1.5	1.5	2.3	1.5	1.5
55°	0.8	0.8	0.8	0.8	0.8
57.5°	0.0	0.0	0.8	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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